| | | Future Flight D | esian |
|--------------------|----------|---------------------|--|
| | | 2008 Science | |
| | Gra | ade and Course Leve | |
| Missouri Science | | | |
| Grade 5 | | | |
| Activity/Lesson | State | Standards | |
| | | | Work with a group to solve a problem, giving |
| Air Transportation | | | due credit to the ideas and contributions of |
| Problem | MO | SCI.5.8.3.A.b | each group member |
| | | | |
| | • | Future Flight D | esign |
| | | 2008 Science | ce |
| | Gra | ade and Course Leve | I Expectations |
| Missouri Science | | | |
| Grade 6 | | | |
| Activity/Lesson | State | Standards | |
| | | | Recognize different kinds of questions |
| | | | suggest different kinds of scientific |
| | | | investigations (e.g., some involve observing |
| | | | and describing objects, organisms, or |
| | | | events; some involve collecting specimens; |
| | | | some involve experiments; some involve |
| | | | making observations in nature; some involve |
| Air Transportation | | | discovery of new objects and phenomena; |
| Problem | MO | SCI.6.7.1.A.e | some involve making models) |
| | | | Describe how technological solutions to |
| | | | problems (e.g., storm water runoff, fiber |
| | | | optics, windmills, efficient car design, |
| | | | electronic trains without conductors, sonar, |
| | | | robotics, Hubble telescope) can have both |
| | | | benefits and drawbacks (e.g., design |
| Aircraft Design | | | constraints, unintended consequences, |
| Problem | MO | SCI.6.8.1.C.a | risks) |
| | | F (F' 1 (B | |
| | | Future Flight D | |
| | 0 | 2008 Science | |
| Missouri Science | Gra | ade and Course Leve | Expectations |
| Grade 7 | | | |
| Activity/Lesson | State | Standards | |
| Activity/Lesson | State | Statitualus | Recognize that different kinds of questions |
| | | | suggest different kinds of questions |
| | | | investigations (e.g., some involve observing |
| | | | and describing objects organisms, or events; |
| | | | some involve collecting specimens; some |
| | | | involve experiments; some involve making |
| | | | observations in nature; some involve |
| Air Transportation | | | discovery of new objects and phenomena; |
| Problem | МО | SCI.7.7.1.A.e | some involve making models) |
| TODICITI | INIO | JOCI.7.7.1.A.E | some involve making models) |

| | | | TAIL I. I |
|-------------------------|---------|-----------------|---|
| | | | Acknowledge there is no fixed procedure |
| | | | called "the scientific method", but some |
| | | | investigations involve systematic |
| | | | observations, carefully collected and relevant |
| | | | evidence, logical reasoning, and imagination |
| Air Transportation | | | in developing hypotheses and other |
| Problem | МО | SCI.7.7.1.A.f | explanations |
| | | | Identify and describe the types of forces |
| | | | acting on an object in motion, at rest, |
| Aircraft Design | | | floating/sinking (i.e., type of force, direction, |
| Problem | МО | SCI.7.2.2.A.a | amount of force in Newtons) |
| TODICITI | IVIO | 001.7 .2.2.7α | Compare the effects of balanced and |
| | | | unbalanced forces (including magnetic, |
| Aircraft Docion | | | gravity, friction, push or pull) on an object's |
| Aircraft Design Problem | MO | CCL 7 2 2 D a | motion |
| Problem | MO | SCI.7.2.2.D.a | |
| | | | Describe how technological solutions to |
| | | | problems (e.g., storm water runoff, fiber |
| | | | optics, windmills, efficient car design, |
| | | | electronic trains without conductors, sonar, |
| | | | robotics, Hubble telescope) can have both |
| | | | benefits and drawbacks (e.g., design |
| Aircraft Design | | | constraints, unintended consequences, |
| Problem | MO | SCI.7.8.1.C.a | risks) |
| | | | |
| | | Future Flight D | <u> </u> |
| | | 2008 Science | |
| M' | Grade a | and Course Leve | I Expectations |
| Missouri Science | | | |
| Grade 8 | 01-1- | 0111- | |
| Activity/Lesson | State | Standards | December that different hinds of supertions |
| | | | Recognize that different kinds of questions |
| | | | suggest different kinds of scientific |
| | | | investigations (e.g., some involve observing |
| | | | and describing objects organisms, or events; |
| | | | some involve collecting specimens; some |
| | | | involve experiments; some involve making |
| | | | observations in nature; some involve |
| Air Transportation | | | discovery of new objects and phenomena; |
| Problem | MO | SCI.8.7.1.A.e | some involve making models) |
| | | | Acknowledge there is no fixed procedure |
| | | | called "the scientific method", but some |
| | | | investigations involve systematic |
| | | | observations, carefully collected and relevant |
| | | | evidence, logical reasoning, and imagination |
| Air Transportation | | | in developing hypotheses and other |
| Problem | МО | SCI.8.7.1.A.f | explanations |
| | 1 | 00 | onplanation to |

| | | | Describe how technological solutions to |
|-----------------|----|---------------|--|
| | | | problems (e.g., storm water runoff, fiber |
| | | | optics, windmills, efficient car design, |
| | | | electronic trains without conductors, sonar, |
| | | | robotics, Hubble telescope) can have both |
| | | | benefits and drawbacks (e.g., design |
| Aircraft Design | | | constraints, unintended consequences, |
| Problem | MO | SCI.8.8.1.C.a | risks) |